GenCore version 5.1.6 Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

| :51 ; Search time 63.75 Seconds | (without alignments) | 66.482 Million cell updates/sec |
|---------------------------------|----------------------|---------------------------------|
| May 19, 2004, 16:52:51 | | |
| Run on: | | |

US-10-034-974-7 104 1 WKACPGEDWLFCWGS 15 Title: Perfect score:

Seguence:

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

1586107 seqs, 282547505 residues Searched:

1586107 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

A_Geneseq_29Jan04:*
1: geneseqp1980s:*
2: geneseqp1990s:*
3: geneseqp2000s:* geneseqp2000s:*
geneseqp2001s:*
geneseqp2002s:*
geneseqp2003as:*
geneseqp2003bs:* Database :

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| | | lon | Aae26735 Fibrin bi | Aae26758 Fibrin bi | Fibrin bi | Fibrin bi | Slow diss | Aae26745 Slow diss | Aae26743 Slow diss | Fibrin bi | Fibrin bi |
|----|--------|--------------------|--------------------|--------------------|-----------|-----------|-----------|--------------------|--------------------|-----------|-----------|
| | | Description | Aae26735 Fibr | Aae26758 | Aae26762 | Aae26733 | Aae26744 | Aae26745 | Aae26743 | Aae26753 | Aae26732 |
| | | | 5 | æ | 2 | 3 | 4 | 2 | 3 | 3 | 2 |
| | | Q. | AAE26735 | AAE26758 | AAE26762 | AAE26733 | AAE26744 | AAE26745 | AAE26743 | AAE26753 | AAE26732 |
| | | 8 | ı, | S | Ŋ | ß | ល | S | ഹ | 'n | ഗ |
| | | Match Length DB ID | 15 | 15 | 15 | 15 | 19 | 19 | 19 | 6 | 15 |
| dР | Query | | 100.0 | 70.2 | 67.3 | 63.5 | 63.5 | 63.5 | 63.5 | 9.09 | 60.6 |
| | | Score | 104 | 73 | 70 | 99 | 99 | 99 | 99 | 63 | 63 |
| | Result | . I | - | N | ო | 4 | ഗ | 9 | 7 | œ | on |

| Aae26731 Fibrin bi | 4 Fibrin | e26765 Fibri | 6 Fibrin | Aau61462 Propionib | 981 Propioni | 51 Drosophi | 577 | 26778 Fibrin b | 6761 Fibrin b | Human co | 03 Human B | 39 Anti-a | Aae26780 Fibrin bi | 34 Fibrin | 326746 Slow di | e26748 Slow dis | 6747 Slow dis | 6774 Fibrin b | 0149 Novel P | 24468 Novel | 3519 Human | 0783 | _ | Abo26520 Protein a | w | 3457 | . 29 | 2966 | 3456 | 965 | 3455 | 3975 | 0558 Human | 9 Human | 5207 Human n |
|--------------------|----------|--------------|----------|--------------------|--------------|-------------|----------|----------------|---------------|----------|------------|-----------|--------------------|-----------|----------------|-----------------|---------------|---------------|--------------|-------------|------------|------|----------|--------------------|----------|------|------|----------|----------|----------|----------|----------|------------|----------|--------------|
| AAE26731 | AAE26764 | AAE26765 | AAE26766 | AAU61462 | 73 | ABB59051 | AAE26777 | AAE26778 | AAE26761 | AAW40294 | ABP45903 | AAY06189 | AAE26780 | AAE26734 | AAE26746 | AAE26748 | AAE26747 | AAE26774 | 014 | 446 | ABP43519 | 378 | ABO45040 | | ABU23786 | 345 | 596 | AAG52966 | AAG13456 | AAG52965 | AAG13455 | AAB83975 | AAY60558 | AAB93469 | AAU1 6207 |
| ď | S | ഗ | Ŋ | 4 | ω | 4 | മ | മ | Ŋ | ~ | S | 7 | Ŋ | S | S | 2 | ß | ഗ | 4 | 4 | ς | 77 | 9 | ^ | Q | ო | ო | ന | ო | ო | ო | 4 | 0 | 4 | 4 |
| | | 15 | | | S | 4547 | თ | σ | 15 | 33 | 255 | 34 | თ | | | 13 | 13 | თ | 270 | 93 | 82 | 86 | 98 | σ | 3 | 4 | 347 | 9 | 9 | N | N | σ | 169 | B | œ |
| | 4. | 53.8 | e٠ | ä | 'n, | • | ė. | 49.0 | ó | ė, | ö | œ. | œ. | • | • | œ, | œ. | ė. | ø. | Š. | 4. | 4, | 4. | 4 | 4 | 4. | 4 | 4. | • | 4. | • | | 43.8 | • | 43.8 |
| 9 | 57 | 26 | Ŋ | 4. | 54.5 | ÷. | 51 | 21 | 51 | 51 | S | | 20 | | | 20 | 20 | 48 | 48 | 4 | 46.5 | 46 | | | | | | | | 46 | | | | 45.5 | ď. |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 13 | 20 | 21 | 22 | 23 | 24 | 25 | 56 | 27 | 28 | 29 | 30 | 31 | 35 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 |

ALI GAMENTS

AAE26735 standard; peptide; 15 AA. 13-DEC-2002 (first entry) Fibrin binding peptide #6. AAE26735;

Fibrin binding peptide; thrombosis; pulmonary embolism; atherosclerosis; myocardial infarct; ischaemia; imaging; rheumatoid arthritis; vasotropic; anaemia; hypoxia; tumour; diabetic retinopathy; autoimmune disorder; inflammatory disorder; angiogenesis; stroke; cerebroprotective.

Unidentified.

WO200255544-A2.

18-JUL-2002.

21-DEC-2001; 2001WO-US049534.

23-DEC-2000; 2000US-00747403.

(DYAX-) DYAX CORP.

WPI; 2002-666875/71.

Wescott CR, Beltzer JP, Sato AK;

Novel synthetic fibrin-binding moiety, useful for detecting, imaging or localizing fibrin-containing clots by magnetic resonance imaging, radioimaging and for treating diseases involving thrombus formation e.g. stroke.

Claim 10; Page 57; 89pp; English.

currenting a disease involving thrombus formation eg, deepvent introduced to pulmonary embolism, rardiquent thrombosis, atherosclerosis, myceardial infarct, reperfusion ischaemia or stroke. The binding moieties are useful of or detection, imaging and localisation of fibrin-containing clots by magnetic resonance imaging and localisation of fibrin-containing clots by magnetic resonance imaging and localisation of fibrin-containing clots by magnetic resonance imaging methods and are also useful in the diagnosis and treatment of coronary conditions where fibrin plays a role. The fibrin binding moieties are useful for detecting and diagnosing numerous pathophysiologies in which fibrin plays a role ag. peritoneal adhesions which often occur after surgery or inflammatory and neoplastic processes and are comprised of a fibrin charmatory and neoplastic processes and new blood vessels; rheumatorid arthritis, moiet new plood vessels; rheumatorid arthritis, lupus or septic arthritis which often have bits of fibrin containing tissues called rice bodies in the synovial fluid of their justics; thrombotypeoperic purpuer, a type of anaemia in which deposits in carterioles causes turbulent blood flow resulting in stress and destruction of red blood cells. The fibrin specific agents can also be useful or there organs, as well as the detection of tumours, diabetic retinopathy, early or high-risk atherosclerosis and other autoimmume and inflammatory disorders. Fibrin specific agents also could provide both correction of serceening molecular libraries. The present sequence is a fibrin in this interior or surrogate markers of disease models in which hypoxia and containing the sequence is a fibrin containing and containing molecular libraries. The present sequence is a fibrin containing and containing molecular interactors. The invention relates to a synthetic fibrin binding group having affinity for fibrin. The invention is useful for detecting fibrin in a mammalian subject which involves (a) detectably labelling the binding group; (b) administering to the subject the labelled polypeptide, and (c) detecting the labelled polypeptide in the subject. The invention is useful for treating a disease involving thrombus formation eg. deep-vein thrombosis, binding peptide

Sequence 15 AA;

0; Gaps 100.0%; Score 104; DB 5; Length 15; 100.0%; Pred. No. 2.6e-08; 0; Indels 0; Mismatches Query Match
Best Local Similarity 100.
Matches 15; Conservative

1 WKACPGEDWLFCWGS 15

1 WKACPGEDWLFCWGS 15

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Search completed: May 19, 2004, 17:05:46 Job time : 64.75 secs

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protein search, using sw model OM protein -

(without alignments) 80.461 Million cell updates/sec May 19, 2004, 17:07:54 ; Search time 51.875 Seconds Run on:

US-10-034-974-7 104 1 WKACPGEDWLFCWGS 15

Perfect score: Sequence:

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

1145568 seqs, 278261457 residues Searched: lotal number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Published Applications AA:*

| cgn2_6/ptodata/2/pubpaa/UGO7_PUBCOMB.pep:*
2: /cgn2_6/ptodata/2/pubpaa/UGO6_NEW_PUB.pep:*
3: /cgn2_6/ptodata/2/pubpaa/UGO6_NEW_PUB.pep:*
4: /cgn2_6/ptodata/2/pubpaa/UGO6_NEW_PUB.pep:*
5: /cgn2_6/ptodata/2/pubpaa/UGO6_PUBCOMB.pep:*
6: /cgn2_6/ptodata/2/pubpaa/UGO8_NEW_PUB.pep:*
7: /cgn2_6/ptodata/2/pubpaa/UGO8_NEW_PUB.pep:*
8: /cgn2_6/ptodata/2/pubpaa/UGO8_NEW_PUB.pep:*
9: /cgn2_6/ptodata/2/pubpaa/UGO8_NEW_PUB.pep:*
10: /cgn2_6/ptodata/2/pubpaa/UGO8_NEW_PUB.pep:*
11: /cgn2_6/ptodata/2/pubpaa/UGO8_NEW_PUB.pep:*
11: /cgn2_6/ptodata/2/pubpaa/UGO8_NEW_PUB.pep:*
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13: /cgn2_6/ptodata/2/pubpaa/UGO9_PUBCOMB.pep:*
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18: /cgn2_6/ptodata/2/pubpaa/UGO_NEW_PUB.pep:*
18: /cgn2_6/ptodata/2/pubpaa/UGO_NEW_PUB.pep:* Database

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Query Score Match Length DB Š. Result

Description

Sequence 7, Appliseduence 30, Appliseduence 15, Appliseduence 15, Appliseduence 15, Appliseduence 17, Appliseduence 17, Appliseduence 25, Appliseduence 31, Appliseduence 31, Appliseduence 31, Appliseduence 11, Appliseduence 11, Appliseduence 11, Appliseduence 11, Appliseduence 11, Appliseduence 15, Appliseduence 19, Appliseduence 19, Appliseduence 19, Appliseduence 110, Appliseduence 1110, Appli # US-10-034-974-7

US-10-034-974-30

US-10-034-974-34

US-10-034-974-15

US-10-034-974-15

US-10-034-974-16

US-10-034-974-16

US-10-034-974-36

US-10-034-974-18

US-10-038-053A-110

US-10-038-053A-110

US-10-038-053A-114611

US-10-038-053A-114611

US-10-038-053A-114611

US-10-038-053A-114611

US-10-038-053A-1173

US-10-048-053A-1173

US-10-034-974-7

Sequence 7, Application US/10034974
Publication No. US20030143158A1
GENERAL INFORMATION:
APPLICANT: DY3X CORP.

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ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
APPLICANT: Beltzer, James P. APPLICANT: Wescott, Charles R. APPLICANT: Wescott, Charles R. APPLICANT: Wasto, Aaron K. TITLE OF INVENTION: FIRBIN BINDING MOIETIES USEFUL AS IMAGING AGENTS FILE REFERENCE: DYX-024.1 PCT; DYX-024.1 US CURRENT APPLICATION NUMBER: US/10/034,974 CURRENT FILING DATE: 2001-12-21 PRIOR APPLICATION NUMBER: US 09/747,403 NUMBER OF SEQ ID NOS: 56 SOFTWARE: Patentin version 3.1 SEQ ID NO 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels
                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
100.0%; Score 104; DB 14;
Best Local Similarity 100.0%; Pred. No. 3.7e-07;
Matches 15; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                               ; OTHER INFORMATION: fibrin binding polypeptide US-10-034-974-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Search completed: May 19, 2004, 17:17:35 Job time : 58.875 secs
                                                                                                                                                                                                                                                                                             TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 WKACPGEDWLFCWGS 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 WKACPGEDWLFCWGS 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               à
```

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OM protein - protein search, using sw model

(without alignments) 85.504 Million cell updates/sec May 19, 2004, 16:59:56; Search time 16.875 Seconds 104 1 WKACPGEDWLFCWGS 15 US-10-034-974-7 Title: Perfect score: Run on:

Sequence:

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

283366 seqs, 96191526 residues Searched: 283366 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 00% Maximum Match 100% Listing first 45 summaries

PIR_78:* Database:

1: pirl:* 2: pir2:* 3: pir3:* 4: pir4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

& Query

| No. | Score | Match | Score Match Length DB ID | DB | ID | Description |
|------|-------|-------|--------------------------|----|--------|--------------------|
| | 50 | 48.1 | 215 2 | ~ | , | glutathione transf |
| 8 | 47 | 45.2 | 624 | ~ | S74222 | alpha-galactosidas |
| ო | 46 | 44.2 | 339 | 7 | F97190 | phenylalanyl-tRNA |
| 4 | 46 | 44.2 | 423 | 7 | G85255 | CDP-diacylglycerol |
| ഗ | 46 | 44.2 | 423 | 7 | T04915 | CDP-diacylglycerol |
| 9 | 45.5 | 43.8 | | ~ | JC5056 | polybromo 1 - chic |
| 7 | 45 | 43.3 | 119 | ~ | T46478 | hypothetical prote |
| œ | 45 | 43.3 | | ~ | G83281 | hypothetical prote |
| o | 45 | 43.3 | 499 | 7 | 528306 | hypothetical prote |
| 10 | 45 | 43.3 | 532 | ~ | E69343 | 2-oxoacid-ferredox |
| 11 | 45 | 43.3 | | 7 | D88551 | protein T23G5.5 [i |
| 12 | 45 | 43.3 | | 7 | T43330 | catecholamine tran |
| 13 | 44 | 42.3 | 217 | 7 | S54138 | probable coat prot |

| leuD 3'~region hyp | hypothetical prote | ABC transporter AT | CAP59 protein - Cr | probable primosoma | protein ZK1240.5 (| aminoglycoside pho | hypothetical prote | hypothetical prote | system, | | frvA protein - Esc | | cytochrome-c oxida | D-alanine-D-alanin | hypothetical prote | hypothetical prote | probable enzyme Z4 | gadd34 protein - 1 | probable nitrite r | nitrite reductase | hypothetical prote | DIP2 protein - yea | | | probable thioredox | hypothetical prote | photosystem II pro | hypothetical prote | CDP-diacylglycerol | glypican 1 precurs | hypothetical prote |
|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------|--------|--------------------|--------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------------|--------------------|--------------------|--------|--------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| F36889 | S35136 | F86777 | A56055 | D86977 | G88071 | AB2832 | F97609 | T18995 | A86079 | B91232 | D48649 | D96541 | B70488 | T35363 | G97298 | E91170 | E86016 | A56535 | E95980 | D87325 | T23573 | S59317 | A53294 | S51465 | B72454 | A83779 | F2VFD1 | T21113 | T04800 | T18896 | H70379 |
| 2 | 7 | 7 | 7 | 7 | N | ~ | 7 | ~ | ~1 | 0 | ~ | ~ | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | ~ | ~ | 7 | ~ | ~ | Н | N | 8 | 7 | 7 |
| 259 | 259 | 277 | 458 | 651 | 292 | 297 | 297 | 3036 | 148 | 148 | 148 | 195 | 236 | 346 | 437 | 558 | 558 | 590 | 820 | 822 | 922 | 943 | 203 | 889 | 250 | 292 | 353 | 429 | 438 | 521 | 538 |
| 42.3 | | 42.3 | 42.3 | 42.3 | 41.3 | 41.3 | 41.3 | 41.3 | 40.9 | 40.9 | 40.9 | 40.4 | 40.4 | 40.4 | 40.4 | 40.4 | 40.4 | 40.4 | 40.4 | 40.4 | 40.4 | 40.4 | 39.9 | 39.9 | 39.4 | 39.4 | 39.4 | 39.4 | 39.4 | 39.4 | 39.4 |
| 4.4 | 44 | 44 | 44 | 44 | 43 | 43 | 43 | 43 | 42.5 | 42.5 | 42.5 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 41.5 | 41.5 | 41 | 41 | 41 | 41 | 41 | 41 | 41 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 52 | 56 | 27 | 28 | 59 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 |

Search completed: May 19, 2004, 17:08:25 Job time : 17.875 secs

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OM protein - protein search, using sw model

May 19, 2004, 16:56:57; Search time 12.5 Seconds (without alignments) 62.484 Million cell updates/sec Run on:

Title: US-10-034-974-7
Perfect score: 104
Sequence: 1 WKACPGEDWLFCWGS 15

Scoring table: BLOSUM62 Gapop 10.0 , Gapext 0.5

141681 seqs, 52070155 residues Searched:

Total number of hits satisfying chosen parameters:

141681

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

SwissProt_42:* Database : Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| | Description | Q97gk9 clostridium | Q14679 homo sapien | Q03614 caenorhabdi | Q02151 lactococcus | Q9ccq3 mycobacteri | P321,55 escherichia | 013504 pichia past | Q13630 homo sapien | Q9xak7 streptomyce | Q12220 saccharomyc | Q06488 saccharomyc | Q9y910 aeropyrum p | Q84bq9 thermus the | 075593 homo sapien | Q9ep82 mus musculu | Q96a84 homo sapien | Q91vf5 mus musculu |
|----|--------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | ID | SYFA_CLOAB | Y173 HUMAN | NTDO_CAEEL | YMEB LACLA | PRIA_MYCLE | PTVA_ECOLI | TRPF_PICPA | FCL HUMAN | VANL STRCO | DIP2 YEAST | RSC2_YEAST | TDXH AERPE | PRMA_THETH | FXH1 HUMAN | WDR4 MOUSE | EMU1 HUMAN | EMU1_MOUSE |
| | DB | - | 7 | 7 | 7 | ٦ | - | Н | + | П | ۲4 | ٦ | ٦ | 7 | ~ | - | - | ч |
| | Query Match Length DB | 339 | 1199 | 615 | 259 | 651 | 148 | 237 | 321 | 346 | 943 | 889 | 250 | 254 | 365 | 413 | 441 | 444 |
| dр | Query Match | 44.2 | 44.2 | 43.3 | 42.3 | 42.3 | 40.9 | 40.4 | 40.4 | 40.4 | 40.4 | 39.9 | 39.4 | 39.4 | 39.4 | 39.4 | 39.4 | 39.4 |
| | Score | 46 | 46 | 45 | 44 | 44 | 42.5 | 42 | 42 | 42 | 42 | 41.5 | 41 | 41 | 41 | 41 | 41 | 41 |
| | Result No. | 1 | 7 | ო | び | 'n | v | 7 | ω | o | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |

| 013157 gallus gall P51802 rattus norv | P13394 mus musculu Q9w754 rana catesb O04928 a phosphati | - | - | | P71670 mycobacteri | P37700 clostridium | P02671 homo sapien | Q8r526 mus musculu | Q9uul4 schizosacch | P98159 drosophila | P14111 bacteriopha | P38341 saccharomyc | Q04772 saccharomyc | Q9by08 homo sapien | P15751 klebsiella | O15482 homo sapien | 004940 s phosphati | P03395 friend muri | | 014154 schizosacch | Q50335 mycoplasma | P31549 escherichia | P37063 lactobacill | 013262 xenopus lae |
|--|--|------------|-----------|------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------------|--------------------|--------------------|--------------------|--------------------|-------------------|--------------------|--------------------|--------------------|------------|--------------------|-------------------|--------------------|--------------------|--------------------|
| GFR2_CHICK CICL_RAT | SCAB RANCA | VENV_DHVI1 | AOF_ONCMY | GLGB_RHOMR | PRIA_MYCTU | GUNG_CLOCE | FIBA_HUMAN | P1L1_MOUSE | MOKC SCHPO | NDL DROME | VKIL BPP22 | YB9I_YEAST | YMW3_YEAST | EBRP HUMAN | GSPL_KLEPN | TX28 HUMAN | CDS1_SOLTU | ENV MLVFR | E2BG_HUMAN | AMY3_SCHPO | YF92 MYCPN | THIP ECOLI | POXB_LACPL | SCB2_XENLA |
| 200 | 0 W - | 10 | 2 1 | - | 5 | 5 | 1 9 | 1 1 | 2 | 6 1 | 62 1 | 16 | 1 1 | 1 9 | 18 | 0 1 | 14 1 | 5 | 2 1 | 3 1 | 1 1 | 16 1 | 603 1 | 1 |
| 465 | 273 | 52 | 522 | 62 | 65 | 725 | 866 | 531 | 2352 | 2616 | w | 106 | 201 | 206 | 398 | 41 | 424 | 44 | 45 | 513 | 52 | 53 | 9 | 64 |
| 39.4 | 2 8 8 2 8 8 4 50 7 | 38.5 | 38.5 | 38.5 | 38.5 | 38.5 | 38.5 | 38.0 | 38.0 | 38.0 | 37.5 | 37.5 | 37.5 | 37.5 | 37.5 | 37.5 | 37.5 | 37.5 | • | 37.5 | 37.5 | 37.5 | 37.5 | 37,5 |
| 14.4 | 4 4 4 | 4 0 | 40 | 40 | 40 | 40 | 40 | 39.5 | 39.5 | 39.5 | 39 | 39 | | | 39 | 39 | 39 | | | 39 | | 99 | 39 | 39 |
| 18 | 212 | 23 | 24 | 52 | 56 | 27 | 28 | 53 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 33 | 40 | 41 | 45 | 43 | 44 | 45 |

Search completed: May 19, 2004, 17:06:20 Job time : 14.5 secs

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OM protein - protein search, using sw model

 Run on:
 May 19, 2004, 16:58:07; Search time 45.625 Seconds

 Title:
 (without alignments)

 Perfect score:
 104

 Sequence:
 1 WKACPGEDWLFCWGS 15

 Scoring table:
 BLOSUM62

 Gapop 10.0
 Gapext 0.5

 Searched:
 1017041 seqs, 315518202 residues

 Total number of hits satisfying chosen parameters:
 1017041

Minimum DB seq length: 0 Maximum DB seq length: 2000000000

Maximum Ds Seq length: 2000000000
Post-processing: Minimum Match 100%
Maximum Match 100%
Listing first 45 summaries

Database : SPTREMBL_25:*

1: sp_archea:*
2: sp_bacteria:*
3: sp_fungi:*
4: sp_human:*
5: sp_invertebrate:*
6: sp_mammal:*
7: sp_more is sp_phage:*
10: sp_phage:*
11: sp_vortebrate:*
13: sp_vortebrate:*
14: sp_unclessified:*
15: sp_rivius:*
16: sp_rivius:*
17: sp_archeap:*
17: sp_archeap:*
17: sp_archeap:*
17: sp_archeap:*
17: sp_archeap:*
17: sp_archeap:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result Query
No. Score Match Length DB ID

| 5 drosophil | 9w343 drosophil | 91tq6 tupaia her | 42706 coccomyx | Bv3Z3 citrus v | 8v325 citrus v | 941v5 oryza s | 8ca33 mus mus | rqv1 bacillus | 7ur25 rho | 8blh8 mus | ЯЪКј6 ш | 2451 t | Q7u6x7 synechococo | Q9kyu8 streptomyce | 49639 | nitr | homod | homod | chla | leis | leishmani | homod | homo | | gall | рошо | рошо | homo | mrs mrsc | | 10 | Q9hzt8 pseudomonas | - | oryza | 7 nitrosom | oryza sat | ~ | :93 strept | 70 | ig7 t | 2 citrus va | 121 citrus v | ũ | N | |
|-------------|-----------------|------------------|----------------|----------------|----------------|---------------|---------------|---------------|-----------|-----------|---------|--------|--------------------|--------------------|--------|--------|--------|--------|--------|--------|-----------|--------|--------|--------|--------|--------|--------|--------|----------|--------|--------|--------------------|--------|--------|------------|-----------|--------|------------|--------|--------|-------------|--------------|-----|-----|--|
| 95.5 | Q9W343 | Q91TQ6 | 042706 | Q8V323 | Q8V325 | Q941V5 | Q8CA33 | QBRQV1 | Q7UR25 | Q8BLH8 | QBBKJ6 | 092451 | Q7U6X7 | Q9KYU8 | 049639 | Q82V65 | Q8WW29 | 6XNN60 | Q9M5B9 | Q9GRT8 | Q9GY D0 | Q96MS2 | Q9H2T3 | Q9H2T5 | 090941 | Q9H314 | Q86U86 | Q9NSV2 | QBC4A2 | Q9HBQ8 | 266106 | Q9HZT8 | Q8F9F7 | Q7X920 | Q82TM7 | Q9FSJ6 | 029509 | Q9RK93 | Q7Y2S7 | Q99HQ7 | 32 | N | ന | 32 | |
| Ŋ | Ŋ | | 10 | | | | | 7 | 16 | 1 | 11 | ო | 16 | 16 | 10 | 16 | ℴ | 4 | 10 | 'n | Ŋ | 4 | 4 | 4 | 13 | 4 | 4 | 4 | 1 | 4 | 12 | 16 | | 10 | 16 | 10 | 17 | 16 | ψŊ | | 12 | | | | |
| LO. | 4547 | vo | - | - | - | Ø | £ | 144 | 661 | 157 | 185 | 624 | 302 | 315 | 423 | 88 | 1199 | 289 | 503 | 551 | 605 | 9 | 58 | 1602 | 63 | 1634 | 89 | 119 | 120 | 144 | 217 | 242 | 315 | 384 | 393 | 428 | 532 | 1053 | 434 | 212 | 217 | 217 | 217 | 217 | |
| 51.4 | ÷ | 0 | 48.1 | œ | • | ۲. | ó | δ. | • | ď, | Š. | • | 4 | 4. | 4. | 4. | 44.2 | • | | 'n, | 'n. | | • | 43.8 | | e, | ë. | ë. | ë. | | | e, | ë, | ë, | ë, | ω. | e, | • | 'n. | | | 42.3 | 2 | N | |
| 53.5 | က် | 52 | 20 | 20 | 20 | 49 | 48 | ۲. | 47.5 | 47 | 47 | 47 | 46 | 46 | 46 | 46 | 46 | ٠ | 5. | • | 5. | 5. | S. | 45.5 | 5. | ů, | ŝ | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 44.5 | 44 | 44 | 44 | 44 | 44 | |
| п | 2 | က | 4 | ഗ | 9 | 7 | 80 | σ | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 53 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | |

Search completed: May 19, 2004, 17:07:46 Job time : 47.625 secs

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OM protein - protein search, using sw model

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66.482 Million cell updates/sec US-10-034-974-25 63 Title: Perfect score:

BLOSUM62 Gapop 10.0 , Gapext 0.5 1 CPGEDWLFC 9 Scoring table: Sequence:

1586107 seqs, 282547505 residues Searched:

1586107 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database :

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Aae26758 Fibrin bi Aae26751 Fibrin bi | e26733 Fibrin | e26744 Slow di | 745 Slow di | 743 Slow di | | 2 Fibr | 7 Novel h | 1361 Human | Aay28286 Amino aci | A GDP. | Human | Novel | Abp69754 Human pol | Abr82247 Human nuc | Abg00133 Novel hum | | Human | 1 Drosop | ٥. | Fibrin | 6 Slow di | 5748 Slow | 147 Slow | 52 Humar | 354 Human | 3 Human | Abg22448 Novel hum | Abr53214 Protein s | Abg06029 Novel hum | Aau39512 Propionib | 6031 | 3631 | Abb80581 Human sbg | Abg04658 Novel hum |
|--|---------------|----------------|-------------|-------------|-----|----------|-----------|---------------|--------------------|----------|----------|----------|--------------------|--------------------|--------------------|----------|----------|-----------|----------|----------|-----------|-----------|----------|----------|-----------|---------|--------------------|--------------------|--------------------|--------------------|----------|----------|--------------------|--------------------|
| AAE26758 AAE26751 | 67 | AAE26744 | 674 | AAE26743 | 675 | AAE26732 | AAU28117 | AAY81361 | AAY28286 | AAY54116 | AB007263 | AAU28305 | ABP69754 | ABR82247 | ABG00133 | ABB11946 | AAM79508 | ABB5 9051 | AAE26752 | AAE26734 | 4 | AAE26748 | AAE26747 | 3 | 35 | 90 | ABG22448 | 21 | 602 | AAU39512 | ABM36031 | AAB43631 | ABB80581 | ABG04658 |
| വവ | Ŋ | ß | ഗ | Ŋ | ა | 'n | 4 | m | 0 | ო | ø | 4 | S | ø | 4 | 4 | 4 | 4 | S | ស | ß | Ŋ | Ŋ | Ŋ | 4 | ß | 4 | 9 | 4 | 4 | 9 | ٣ | S | 4 |
| 15 | 15 | 19 | 19 | 19 | σ | 15 | マ | $\overline{}$ | $^{\circ}$ | α | \sim | 10 | O | ന | 16 | 22 | 1222 | 54 | თ | 15 | 19 | 19 | 19 | 21 | 2 | 255 | ~ | 4 | S | 9 | 9 | 9 | 194 | 0 |
| 9.5 | | | | | | | 2.7 | | | | | 7.7 | ۲. | .7 | ۲. | .1 | 5.1 | <u>.</u> | د | 5. | 5. | ٠. | .5 | .5 | ٠. ت | 'n. | | ī. | 'n | 6 | 6. | 6 | o. | ٥. |
| 7 6 | 9 | 9 | 9 | 9 | ě | õ | 9 | ě | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 65 | 65 | 9 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 6 | 61 | 61 | 61 | 61 |
| 48 | 44 | 44 | 44 | 44 | 42 | 42 | 45 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 41 | | 40.5 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 6£. | 39 | 39 | 39 | ტ წ |
| 10 | 12 | 13 | 14 | 12 | 9 | 17 | 18 | 13 | 20 | 21 | 22 | 23 | 24 | 52 | 56 | 27 | 28 | 53 | 30 | 31 | 32 | 33 | 34 | 32 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 |

ALIGNMENTS

AAE26753 standard; peptide; 9 AA. 13-DEC-2002 (first entry) Fibrin binding loop #5. AAE26753; RESULT 1

Fibrin binding peptide; thrombosis; pulmonary embolism; atherosclerosis; myocardial inferent; ischbemia; imaging; rheumatoid arthritis; vasotropic; anaemia; hypoxia; tumour; diabetic retinopathy; autoimmune disorder; inflammatory disorder; angiogenesis; stroke; oerebroprotective.

Unidentified.

WO200255544-A2.

18-JUL-2002.

21-DEC-2001; 2001WO-US049534.

23-DEC-2000; 2000US-00747403.

(DYAX-) DYAX CORP.

Wescott CR,

Beltzer JP, Sato AK;

WPI; 2002-666875/71.

Novel synthetic fibrin-binding moiety, useful for detecting, imaging or localizing fibrin-containing clots by magnetic resonance imaging, radioimaging and for treating diseases involving thrombus formation e.g. stroke.

Claim 4; Page 55; 89pp; English.

pulmonary embolism, cardiogenic thrombosis, atherosclerosis, myocardial infarct, reperfusion ischaemia or stroke. The binding modeties are useful for detection, imaging and localisation of fibrin-containing clots by magnetic resonance imaging, radiolmaging and other imaging methods and are also useful in the diagnosis and treatment of coronary conditions where fibrin plays a role. The fibrin binding moleties are useful for ecception and diagnosing numerous pathophysiologies in which fibrin plays a role so performed adhesions which often occur after surgery or inflammatory and neoplastic processes and are comprised of a fibrin network, fibroblasts, macrophages and new blood vessels; rheumatoid arthritis, luques or septic arthritis which often have bits of fibrin containing tissues called rice bodies in the symovial fluid of their containing tissues called rice bodies in the symovial fluid of their containing tissues called rice bodies in the symovial fluid of their containing tissues called rice bodies in the symovial fluid of their containing tissues called rice bodies in the symovial fluid of their containing tissues called rice bodies in the symovial fluid of their containing tissues called rice bodies in the symovial fluid of their containing tissues called rice bodies in the symovial fluid of their containing tissues called rice bodies in the symovial containing tissues called rice to the containing tissues called rice to th The invention relates to a synthetic fibrin binding group having affinity for fibrin. The invention is useful for detecting fibrin in a mammalian subject which involves (a) detectably labelling the binding group; (b) administering to the subject the labelled polypeptide, and (c) detecting the labelled polypeptide in the subject. The invention is useful for treating a disease involving thrombus formation eq. deep-vein thrombosis, joints; thrembotytopenic purpus, a type of anamia in which deposits in arterioles causes turbulent blood flow resulting in stress and destruction of red blood cells. The fibrin specific agents can also be used to detect hypoxia or ischaemia of heart, kidney, liver, lung, brain or other organs, as well as the detection of tumous, diabetic retinopathy, early or high-risk atherosclerosis and other autoimmume and inflammatory disorders. Fibrin specific agents also could provide both direct or surrogate markers of disease models in which hypoxia and angiogenesis are expected to play a role. The invention is also useful for screening molecular libraries. The present sequence is a fibrin binding loop

Sequence 9 AA;

ö 0; Gaps 100.0%; Score 63; DB 5; Length 9; 100.0%; Pred. No. 1.40+06; Indels ö 0; Mismatches 9; Conservative Query Match Best Local Similarity Matches

RESULT 2

AAE26735 standard; peptide; 15 AA.

AAE26735;

(first entry) 13-DEC-2002

Fibrin binding peptide #6.

Fibrin binding peptide; thrombosis; pulmonary embolism, atherosclerosis; myocardial infarct; ischaemia; imaging; rheumatoid arthritis; vasotropic; anaemia; hypoxia; tumour; diabetic retinopathy; autoimmune disorder; inflammatory disorder; angiogenesis; stroke; cerebroprotective.

Unidentified.

WO200255544-A2.

18-JUL-2002.

21-DEC-2001; 2001WO-US049534.

23-DEC-2000; 2000US-00747403.

(DYAX-) DYAX CORP.

Wescott CR, Beltzer JP, Sato AK;

WPI; 2002-666875/71.

Novel synthetic fibrin-binding moiety, useful for detecting, imaging or localizing fibrin-containing clots by magnetic resonance imaging, radioimaging and for treating diseases involving thrombus formation e.g. stroke.

Claim 10; Page 57; 89pp; English.

The invention relates to a synthetic fibrin binding group having affinity for fibrin. The invention is useful for detecting fibrin in a mammalian subject which involves (a) detectably labelling the binding group; (b) administering to the subject the labelled polypeptide, and (c) detecting the labelled polypeptide, in the subject. The invention is useful for treating a disease involving thrombuse formation of deep-ven thrombosis, pulmonary embolism, cardiogenic thrombosis, atherosalessis, myocardial infarct, reperfusion is cacheama or stroke. The binding moieties are useful for detection, inaging and localisation of fibrin-containing oldes by magnetic resonance imaging, radioimaging and other imaging methods and are also useful in the diagnosis and treatment of coronary conditions where fibrin plays a role. The fibrin binding moieties are useful for detecting and diagnosing numerous pathophysiologies in which fibrin plays

c role eg. peritoneal adhesions which often occur after surgery or inflammatory and neoplastic processes and are comprised of a fibrin network, fibroblasts, macrophages and new blood vessels; rhetmatorid network, fibroblasts, macrophages and new blood vessels; rhetmatorid containing tissues called rice bodies in the symovial fluid of their containing tissues called rice bodies in the symovial fluid of their containing tissues called rice bodies in the symovial fluid of their containing tissues called rice bodies in the symovial fluid of their containing tissues called rice bodies in the symovial fluid of their containing tissues causes turbulent blood flow resulting in stress and astruction of rad blood cells. The fibrin specific agents can also be core to east to detect hypoxia or ischaemia of heart, kidney, liver, lung, brain or or orber organs, as well as the detection of tumours, diabetic retinopathy, early or high-risk atherosclerosis and other autoimmume and direct or surrogate markers of disease models in which hypoxia and canding neptide containing molecular libraries. The present sequence is a fibrin binding peptide ö Gaps .; 0 Score 63; DB 5; Length 15; Pred. No. 0.0016; Mismatches 0; Indels 0; Mismatches completed: May 19, 2004, 17:05:47 upery Match
Best Local Similarity 100.0%;
Matches 9; Conservative 0; 4 CPGEDWLFC 12 1 CPGEDWLFC 9 Sequence 15 AA; Search ò 유

Job time : 39.25 secs

GenCore version 5.1.6 Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

(without alignments) 80.461 Million cell updates/sec May 19, 2004, 17:07:54; Search time 31.125 Seconds Total number of hits satisfying chosen parameters: 1145568 seqs, 278261457 residues Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries Gapop 10.0 , Gapext 0.5 Minimum DB seq length: 0 Maximum DB seq length: 200000000 US-10-034-974-25 63 1 CPGEDWLFC 9 **BLOSUM62** Scoring table: Perfect score: Searched: Sequence: Run on: Title:

Published Applications AA:*

| cgn2 6/ptodata/2/pubpaa/USO7_PUBCOMB.pep:*
| cgn2 6/ptodata/2/pubpaa/PCT NEW PUB.pep:*
| cgn2 6/ptodata/2/pubpaa/PCT NEW PUB.pep:*
| cgn2 6/ptodata/2/pubpaa/USO6_NEW_PUB.pep:*
| cgn2 6/ptodata/2/pubpaa/USO6_PUBCOMB.pep:*
| cgn2 6/ptodata/2/pubpaa/USO7_NEW_PUB.pep:*
| cgn2 6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
| cgn2 6/ptodata/2/pubpaa/USO8_NEW_PUB.pep:*
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| cgn2 6/ptodata/2/pubpaa/USO8_PUBCOMB. / cgn2_6/ptodata/2/pubpaa/USO9C_PUBCOMB.pep: .
/ cgn2_6/ptodata/2/pubpaa/USO9 NEW PUB.pep: .
/ cgn2_6/ptodata/2/pubpaa/USO9 NEW PUB.pep: .
/ cgn2_6/ptodata/2/pubpaa/USOB_PUBCOMB.pep: .
/ cgn2_6/ptodata/2/pubpaa/USOB_PUBCOMB.pep: .
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/ cgn2_6/ptodata/2/pubpaa/USOS_NEW PUB.pep: .
/ cgn2_6/ptodata/2/pubpaa/USOS_NEW PUB.pep: . Database :

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

f Score Match Length DB

| equence 25, A | equence 49, | edneuce 20' | equence 33, | edneuce | aquence 52, | equence 36, | Sequence 46, Appl | equence 30, | equence 23, | equence 5, A | equence 15, | e 16, | e 17, | e 22, | e 4, Ap | e 286, | 286, | 6, App | Sequence 662, App | equence 662, | œ | equence 24, | odnence e' | equence 18, | equence 19, | equence 20, Ap | equence 3163, | equence 3163, | e 2010 | equence 21653 | Sequence 257281, | Φ | equence 1914, | Sequence 1589 | 1076, 2 | equence 8487, | equence 20998 | e 225 | equence 21, | Sequence 53, Appl | equence 3, | equence 37, | equence 2653 | |
|----------------------------------|---------------|----------------|-------------|------------------|-------------|-------------|-------------------|---------------|-------------|-----------------|--------------|---------------|---------------|--------------|---------------|---------|-------------------|----------|-------------------|-----------------|-------------|--------------|---------------|---------------|-------------|----------------|-----------------|------------------|------------------|------------------|------------------|-----------------|-------------------|------------------|-----------------|-------------------|-----------------|-------------------|-----------------|-------------------|------------|-------------|--------------|---|
| S-10-034-974-2 S-10-034-974-7 | -10-034-974-4 | S-10-034-974-5 | 4-974- | US-10-034-974-34 | 4-974-5 | 10-034-9 | US-10-034-974-46 | -10-034-974-3 | 4-974- | US-10-034-974-5 | -10-034-974- | -10-034-974-1 | -10-034-974-1 | -10-034-974- | -10-034-974-4 | -278-28 | US-10-291-172-286 | 18-271-6 | S-10-221-278-66 | -10-291-172-662 | 3-276-774-2 | -10-034-974- | -10-034-974-6 | -10-034-974-1 | 10-034-974- | 0-034-974-2 | -09-880-748-316 | -10-293-418-3163 | -10-424-599-2010 | 10-424-599-21653 | 10-424-599-257. | -09-880-748-191 | S-10-293-418-1914 | 5-10-424-599-158 | 19-925-301-1076 | US-10-369-493-848 | US-10-424-599-2 | US-10-369-493-222 | US-10-034-974-2 | US-10-034-974-53 | | | US-10-424- | |
| | | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 12 | 15 | | - | - | 12 | ٦ | - | 14 | H | ٦ | Ä | H | H | - | | 7 | Н | 7 | | Н | | 15 | 7 | 14 | 14 | - | 12 | |
| 9 51 | თ | თ | 15 | | on | 15 | | 15 | 6 | 15 | 19 | 19 | 19 | ത | 15 | 147 | | N | 455 | ß | 1222 | σ | 15 | 19 | 19 | 19 | 21 | 21 | 83 | マ | 190 | ഹ | LO. | œ | w | σ | ~ | 513 | თ | on | 15 | 15 | 106 | |
| | .: | _; | 81.0 | _; | σ. | ď | vo | ú | σ, | σ. | ď | o, | O) | é | 66.7 | | 9 | ø. | 9 | 66.7 | 65.1 | ۳. | ന | ش | ω, | 63.5 | έ, | e, | | ë. | 63,5 | | | | | 61.9 | | _ | 0 | | 0 | 0 | | |
| 63 | | | | | | | | | 44 | 44 | 44 | 44 | 44 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 41 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 33 | 39 | m | 38.5 | ന | 38 | 38 | 38 | 38 | |
| 42 | m | 7 | S | 9 | ~ | - 00 | o | 10 | Ξ | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 13 | 20 | 21 | 22 | 23 | 24 | 52 | 56 | 27 | 28 | 53 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 33 | 40 | 4 | 42 | 43 | 44 | 45 | , |

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0; Gaps

Query Match 100.0%; Score 63; DB 14; Length 9; Best Local Similarity 100.0%; Pred. No. 1e+06; Matches 9; Conservative 0; Mismatches 0; Indels

1 CPGEDWLFC 9

ò

; FEATURE: ; OTHER INFORMATION: fibrin binding loop US-10-034-974-25

TYPE: PRT ORGANISM: Artificial Sequence

APPLICANT: Beltzer, James P.
APPLICANT: Wescott, Charles R.
APPLICANT: Sato, Aaron K.
TITLE OF INVENTION: FIRBIN BINDING MOLETIES USEFUL AS INAGING AGENTS
FILE REFERENCE: DYX-024.1 PCT; DYX-024.1 US
CURRENT APPLICATION NUMBER: US/10/034,974
CURRENT FILING DATE: 2001-12-21
PRIOR FILING DATE: 2000-12-23
NUMBER OF SEQ ID NOS: 56
SOFTWARE: Patentin version 3.1
SEQ ID NO 25

ALI GNMENTS

RESULT 1
US-10-034-974-25
; Sequence 25, Application US/10034974
; Sequence 25, Publication No. US2030143158A1
; GENERAL INFORMATION:
; APPLICANT: DYAX CORP.

Gaps

ö APPLICANT: DYAX CORP.

APPLICANT: Baltzer, James P.

APPLICANT: Baltzer, James P.

APPLICANT: Wescott, Charles R.

APPLICANT: Sato, Aaron K.

TITLE OF INVENTION: FIRBN BINDING MOIETIES USEFUL AS IMAGING AGENTS

FILE REFERENCE: DYX-024.1 PCT; DYX-024.1 US

FILE REFERENCE: DYX-024.1 PCT; DYX-024.1 US

CURRENT PELLION NUMBER: US 10/10/034,974

CURRENT FILING DATE: 2000-12-23

PRIOR FILING DATE: 2000-12-23

NUMBER OF SEQ ID NOS: 56

SOFTWARE: Patentin version 3.1

SOFTWARE: Patentin version 3.1 ö Query Match 100.0%; Score 63; DB 14; Length 15; Best Local Similarity 100.0%; Pred. No. 0.0039; Matches 9; Conservative 0; Mismatches 0; Indels ; FEATURE: ; OTHER INFORMATION: fibrin binding polypeptide US-10-034-974-7 ; Sequence 7, Application US/10034974 ; Publication No. US20030143158A1 ; GENERAL INFORMATION: TYPE: PRT ORGANISM: Artificial Sequence 1 CPGEDWLFC 9 RESULT 2 US-10-034-974-7 LENGIH: 15 셤

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Search completed: May 19, 2004, 17:17:36 Job time : 32.125 secs

GenCore version 5.1.6 Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

May 19, 2004, 16:59:56 ; Search time 10.125 Seconds (without alignments) 85.504 Million cell updates/sec Run on:

US-10-034-974-25 63 1 CPGEDWLFC 9 Title: U. Perfect score: 6. Sequence: 1

Scoring table: BLOSUM62 Gapop 10.0 , Gapext 0.5

283366 seqs, 96191526 residues Searched:

283366 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database :

PIR_78:*
1: pir1:*
2: pir2:*
3: pir3:*
4: pir4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Query Match Length DB | DB | ID | Description |
|---------------|-------|----------------|--------------------------|----|--------|--------------------|
| - | 42 | 66.7 | 236 | 2 | B70488 | cytochrome-c oxida |
| 7 | 40 | 63.5 | 429 | 7 | T21113 | hypothetical prote |
| n | 40 | 63,5 | | 7 | S59317 | DIP2 protein - yea |
| 4 | 39 | 61.9 | | 7 | C56695 | transducin-like en |
| S | 38.5 | 61.1 | | N | 138770 | alpha-amylase a pr |
| ω | 38 | 60.3 | | - | 512516 | hypothetical prote |
| 7 | 38 | 60.3 | | N | AH2408 | permease protein o |
| ω | 38 | 60.3 | | ~ | T16588 | hypothetical prote |
| თ | 37 | 58.7 | | ~ | E86251 | protein F25C20.8 [|
| 10 | 37 | 58.7 | | 7 | G82092 | conserved hypothet |
| 11 | 37 | 58.7 | | N | A75009 | probable aryl phos |
| 12 | 37 | 58.7 | | ~ | E86239 | protein F20B24.2 [|
| 13 | 37 | 58.7 | | 7 | G85255 | CDP-diacylglycerol |

| CDP-diacylglycerol probable membrane probable membrane mscd6 precursor - MEGF6 protein - ra hypothetical prote | | 0.000 | | reductase reductase jen alpha -2-oxobut | channel jated cho channel en alpha reductase channel | chloride channel p lantibiotic subtil |
|---|--------------------------------------|---|--|--|---|--|
| T04915 S51456 S67084 I49100 T13954 | T49766 T31263 B53116 C53116 | D65005 B91030 C85874 S52833 | T13145 T15075 T19233 H65057 | | \$1341 \$1972 \$6821 D4423 T0224 \$2339 \$33707 | S19595 I39987 |
| 4 70 70 70 70 | 346 346 399 | 182 2 182 2 182 2 182 2 | 88 9 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | | 805 2 810 2 822 2 866 2 889 2 907 2 | 994 2 1030 2 |
| 5588.7 568.7 568.7 7.0 7.0 7.0 | 0.7.0 | rrr | 57.1 | . ۲. ۲. ۲. ۲. | 57.1 57.1 57.1 57.1 57.1 | 57.1 |
| 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | 36.5 | | 9 9 9 9 | , , , , , , , , , , , , , , , , , , , | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 36 |
| 14 15 17 18 | 20000 | 1 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 3 0 0 E | 3 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | 37 38 39 40 42 43 | 44 45 |

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Search completed: May 19, 2004, 17:08:27 Job time : 12.125 secs

GenCore version 5.1.6 Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: May 19, 2004, 16:56:57; Search time 7.5 Seconds (without alignments) 62.484 Million cell updates/sec

Title: US-10-034-974-25
Perfect score: 63
Sequence: 1 CPGEDMLFC 9

Scoring table: BLOSUM62 Gapop 10.0 , Gapext 0.5

Searched: 141681 seqs, 52070155 residues

Total number of hits satisfying chosen parameters: 141681

Minimum DB seq length: 0 Maximum DB seq length: 200000000 Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database : SwissProt_42:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| | | ďρ | | | | |
|--------|-------|-------|-----------------|---|------------|--------------------|
| Result | | Query | | | | |
| No. | Score | Match | Match Length DB | 图 | ID | Description |
| | 42 | 66.7 | 321 | 7 | FCL HUMAN | Q13630 homo sapien |
| N | 40 | 63.5 | 943 | 7 | DIPZ YEAST | Q12220 saccharomyc |
| ო | 39 | 61.9 | 743 | 7 | TLE2_HUMAN | Q04725 homo sapien |
| 4 | 39 | 61.9 | 767 | - | TLE2 MOUSE | Q9wvb2 mus musculu |
| ഗ | 38.5 | 61.1 | 513 | Н | AMY3 SCHPO | O14154 schizosacch |
| 9 | 38 | 60.3 | 321 | Н | FCL_CRIGR | QBk3x2 cricetulus |
| 7 | 38 | 60.3 | 321 | Н | FCL_MOUSE | P23591 mus musculu |
| ω | 38 | 60.3 | 463 | - | ENGA BIFLO | QBg6aB bifidobacte |
| σ | 37 | 58.7 | 598 | Н | THI7 YEAST | Q05998 saccharomyc |
| 10 | 37 | 58.7 | 599 | + | THIY YEAST | Q08579 saccharomyc |
| 11 | 37 | 58.7 | 665 | Н | CD6 MOUSE | Q61003 mus musculu |
| 12 | 36 | 57.1 | 182 | 7 | YFCM ECOLI | P76938 escherichia |
| 13 | 36 | 57.1 | 201 | Н | YMW3_YEAST | Q04772 saccharomyc |
| 14 | 36 | 57.1 | 598 | Н | CYSJ ECOLI | P38038 escherichia |
| 15 | 36 | 57.1 | 805 | - | CICH TORMA | P21564 torpedo mar |
| 16 | 36 | 57.1 | 809 | 1 | CICH_TORCA | P35522 torpedo cal |
| 17 | 36 | 57.1 | 866 | - | FIBA HUMAN | P02671 homo sapien |

| P49102 zea mays (m P51788 homo saphen P51788 orytolagus Q9wu45 cavia porce P35523 attus norv Q9r0al mus musculu P35523 homo sapien Q64447 mus musculu P35524 rattus norv P39774 bacillus su P39574 bacillus su P39574 bacillus su P39541 saccharomyc Q07179 chodobacter Q37680 triticum ae P7151 mycobacteri Q9res Geinocococus P5248 homo sapien Q02353 rattus norv O60462 homo sapien O60462 homo sapien Q35375 mus musculu P30929 mumps virus Q61847 mus musculu P24798 gallus gallu | P13637 homo sapien P06687 rattus norv P09572 gallus gall Q92030 anguilla an |
|--|--|
| NIA3_MAIZE CLCZ_RABIT CLCZ_CAVPO CLCZ_CAVPO CLCZ_RAI CLCZ_MOUSE CLCI_HOWSE CLCI_HOWSE CLCI_RAI SPAB_BACSU XJTS_YEAST NIFV_RHOCA NUSM_WHEAT YSSS_MACTU SYSS_MACTU SYSS_MACTU SYSS_MACTU SYSS_MACTU SYSS_MACTU SYSS_MACTU SYSS_MACTU SYSS_MACTU SYSS_MACTU NIFV_RADI NUSM_WHEAT NUSM_WACUS RRPL_MUMAN MRPP_RAI NUSM_WRPP_MACTU MRPP_MUMPM MR | AIA3_HUMAN AIA3_RAT AIA1_CHICK AIA1_ANGAN |
| | |
| 8889899988899998889999988899999888899998888 | 1013 1013 1021 1022 |
| 7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7. | |
| 9 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | 344.5 |
| 118 119 120 130 130 130 130 130 130 130 130 130 13 | 1444 1224 |

Search completed: May 19, 2004, 17:06:21 Job time : 8.5 secs

GenCore version 5.1.6 Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

May 19, 2004, 16:58:07; Search time 27.375 Seconds (without alignments) 103.732 Million cell updates/sec Run on:

US-10-034-974-25 63 Title:
Perfect score: 6

1 CPGEDWLFC 9

Scoring table: BLOSUM62 Gapop 10.0 , Gapext 0.5

1017041 Total number of hits satisfying chosen parameters: 1017041 seqs, 315518202 residues Searched:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

SPTREMBL 25:* Database :

1: sp_arches:*
2: sp_bacteria:*
3: sp_fungi:*
4: sp_human:*
5: sp_inverrebrate:*
6: sp_inverrebrate:*
7: sp_manmal:*
7: sp_manmal:*
8: sp_organale:*
9: sp_organale:*
10: sp_plant:*
11: sp_virus:*
12: sp_virus:*
13: sp_virus:*
14: sp_virus:*
15: sp_virus:*
16: sp_archesp:*
17: sp_archesp:*
17: sp_archesp:*
18: sp_virus:*
18: sp_virus:*
18: sp_virus:*
19: sp_archesp:*
11: sp_archesp:*
15: sp_archesp:*
16: sp_archesp:*
17: sp_archesp:*
17: sp_archesp:*
18: sp_archesp:*
18: sp_archesp:*
18: sp_archesp:*
19: sp_archesp:*
10: sp_arch

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result Query
No. Score Match Length DB

Description П

| Q9rk93 streptomyce Q8c4a2 mus musculu O67934 aquifex aeo Q7z7k2 homo sapien Q99d18 bovine herp Q8tuw3 methanopyru Q95sn5 drosophila Q9w343 drosophila Q9w343 drosophila Q8w342 methanosarc | Ogmund boltenia vi OBrul5 oryza sativ Q09538 caenchlabdi Q0hed7 leishmania Q8qq43 pseudomonas Q8qq69 cucurbit le | seurospora seudomonas mus muscul bordetella bordetella tomo sapien | 0 | 32.052 32.052 32.052 30 | Q840q5 streptomyce Q9r3i9 streptomyce |
|---|--|---|---|--|--|
| 16 09RK93 11 08C4A2 16 067934 4 072K2 12 099D18 17 08TW3 5 0983N5 5 09W343 17 08TW42 | 15 2 2 2 1 2 | 12 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 112 9 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 | |
| 1053 120 236 236 595 97 279 1952 86 | 116 183 429 1236 196 293 | 548 548 637 637 2948 | | 315 321 321 321 463 463 463 1035 1035 1187 335 335 | 8 8 9 |
| 0.000 | 63. 63. 61. | 61. 61. 61. 61. | 600.0000000000000000000000000000000000 | | വവ |
| 44 44444 00 4644440 004 | | | | | 37 |
| → Z S A S S P S S S | | 116 118 120 210 210 | 23 24 27 27 29 29 30 | | 44 |

Search completed: May 19, 2004, 17:07:48 Job time : 29.375 secs